



Attorney's Bucket No.: 06998-028001

#15

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : James K. Baker et al.

Art Unit : 2748

Serial No. : 08/825,141

Examiner : M. Opsasnick

Filed : March 28, 1997

Batch No. : I25

Notice of Allowance Date: February 14, 2000

Title : PRONUNCIATION GENERATION IN SPEECH RECOGNITION

**Attention: Official Draftsman**

Assistant Commissioner for Patents

Washington, D.C. 20231


**TRANSMITTAL OF FORMAL DRAWINGS**

In response to the Notice of Allowability mailed February 14, 2000, please substitute the enclosed sixteen (16) sheets of formal drawings for the corresponding drawings presently in the application.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: May 9, 2000

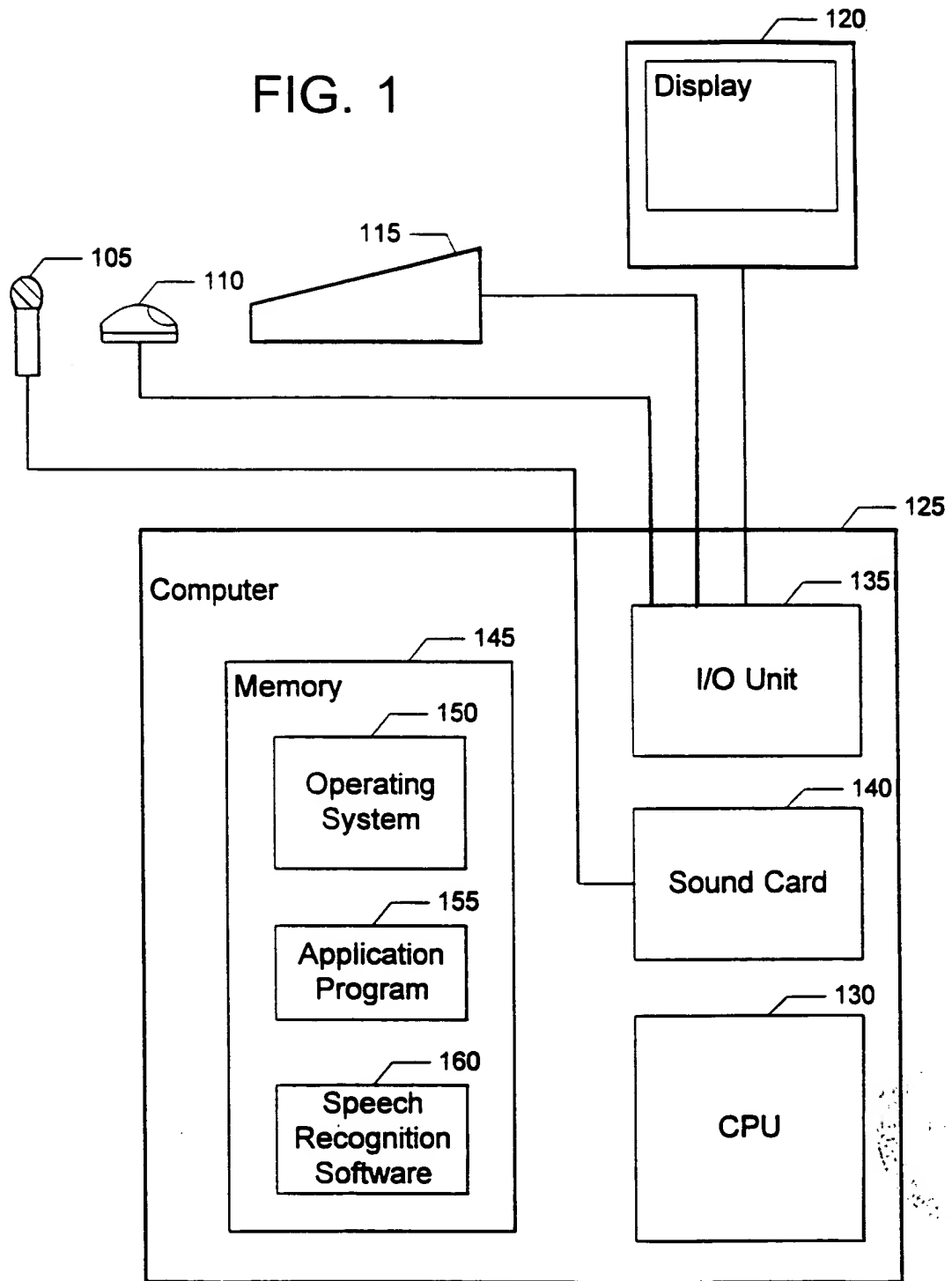
  
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40027605.doc



FIG. 1



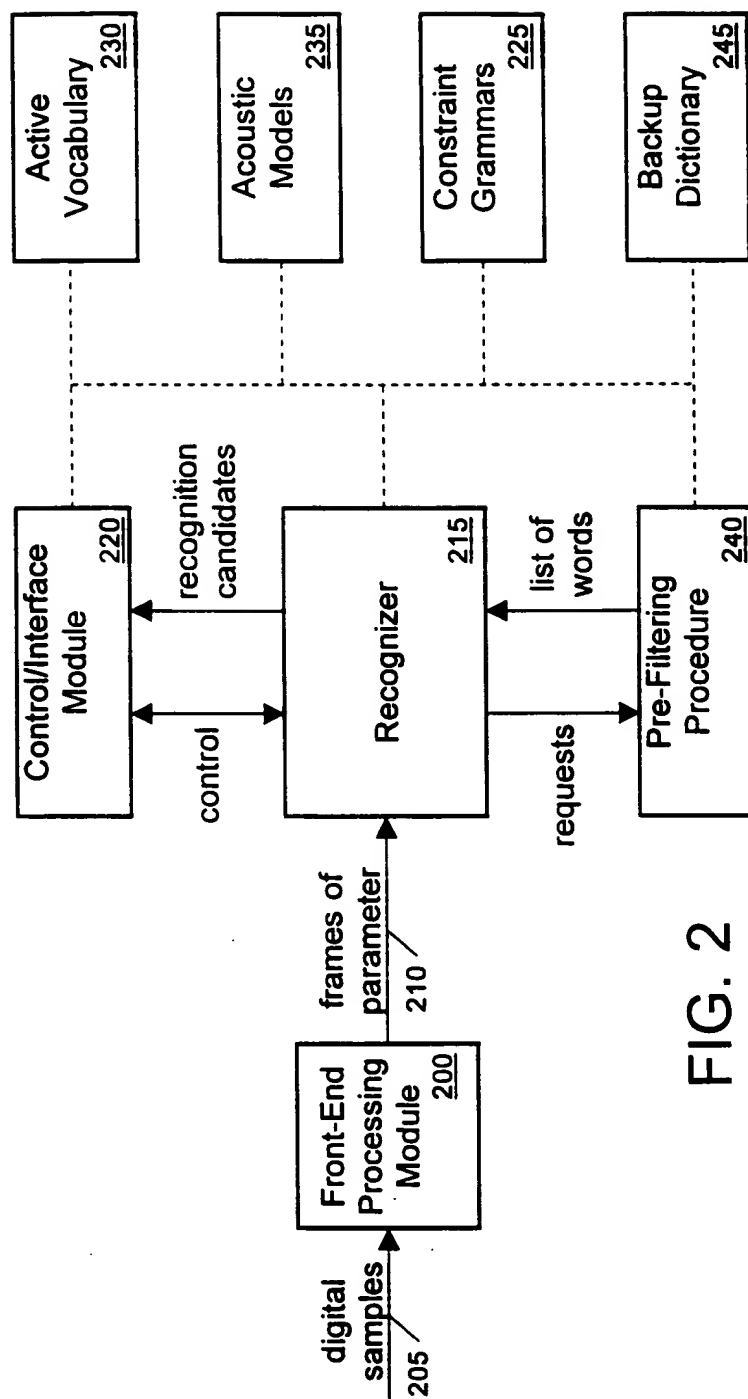


FIG. 2

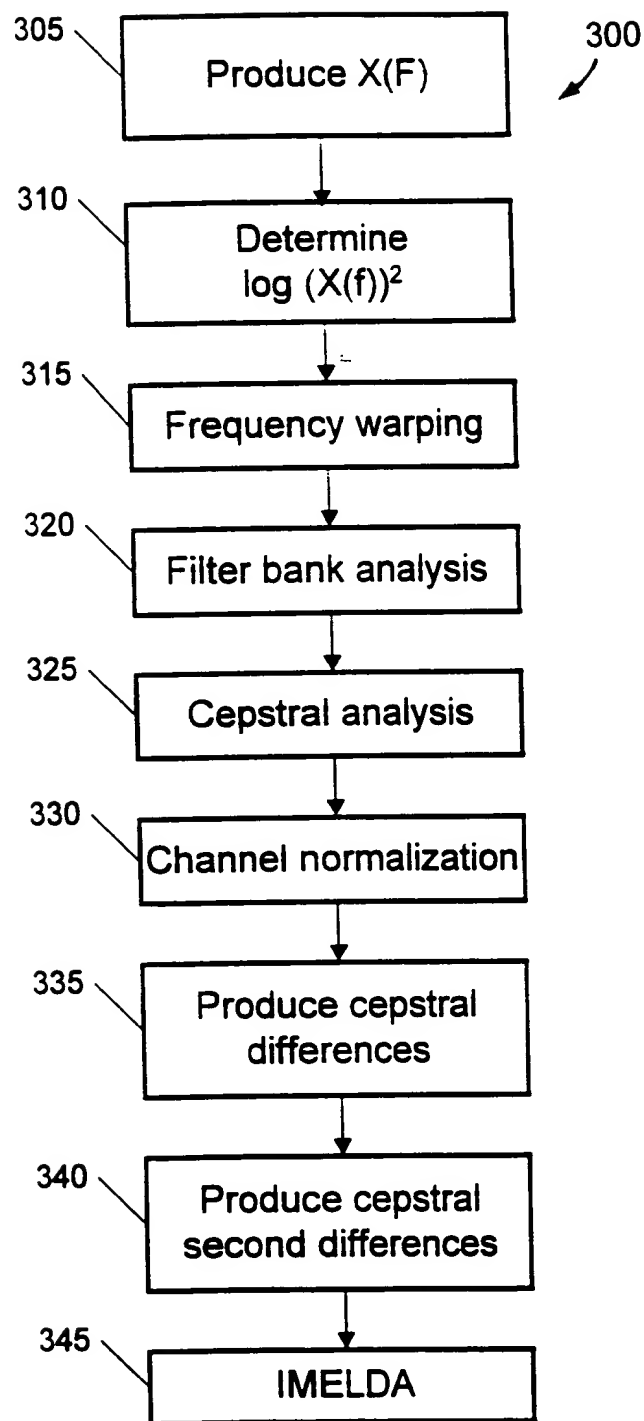


FIG. 3

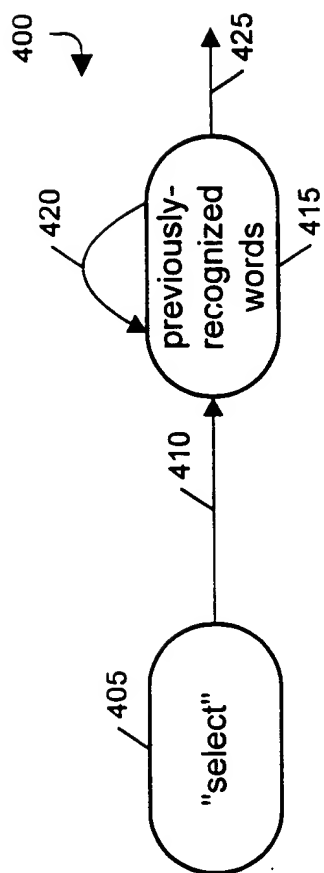


FIG. 4A

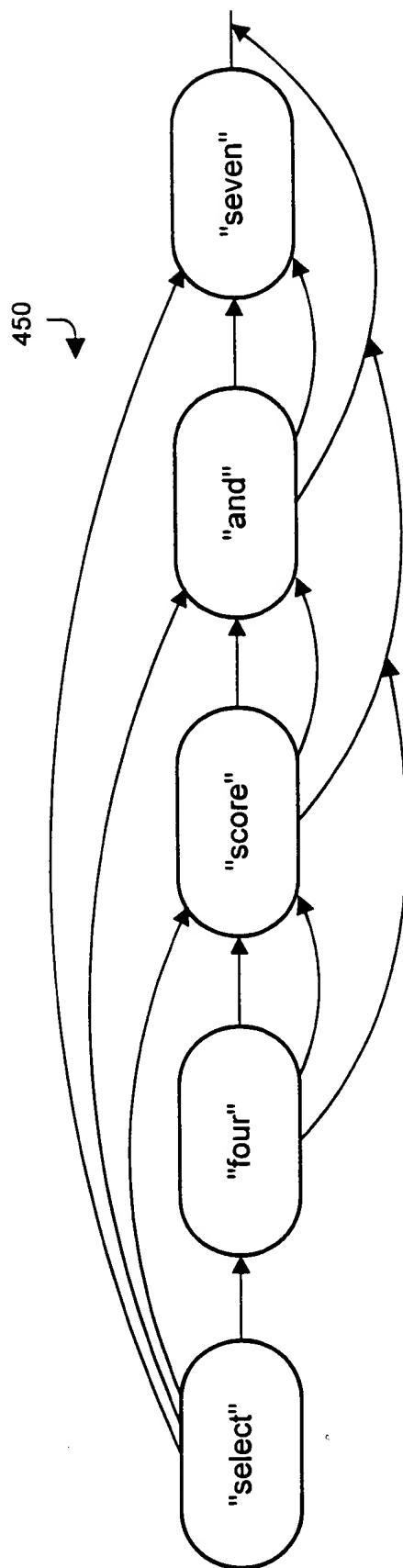


FIG. 4B

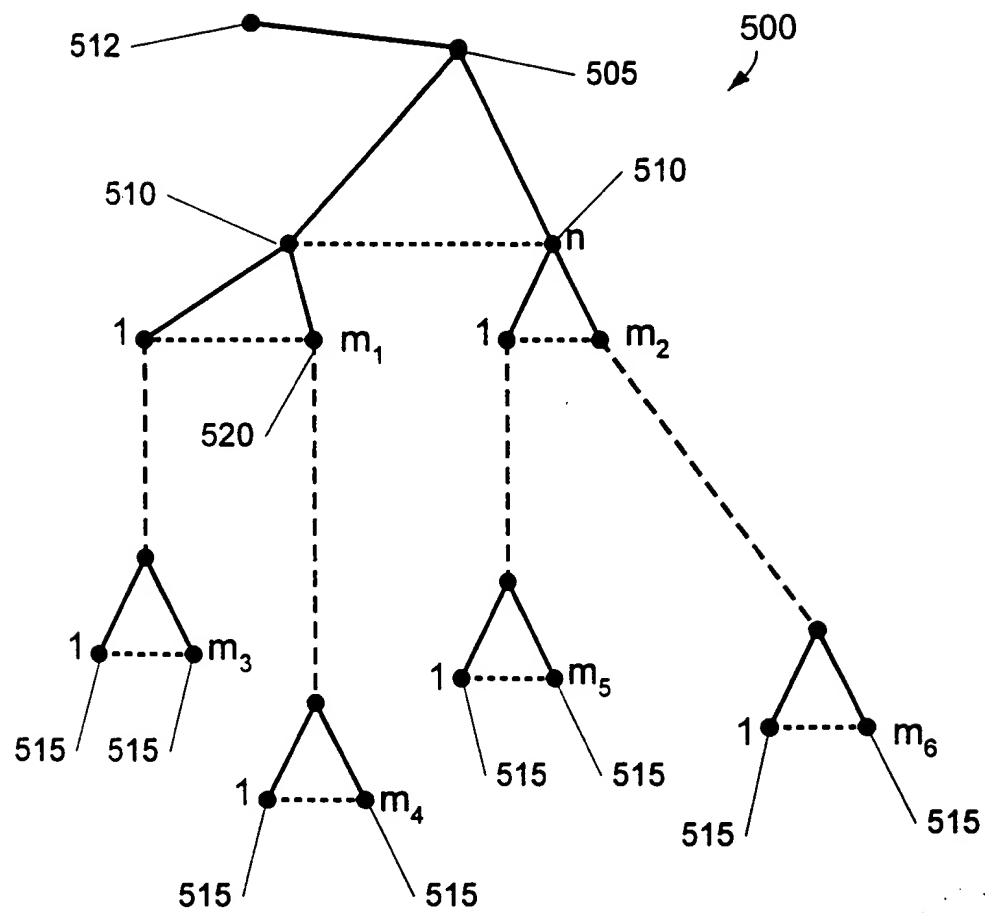


FIG. 5

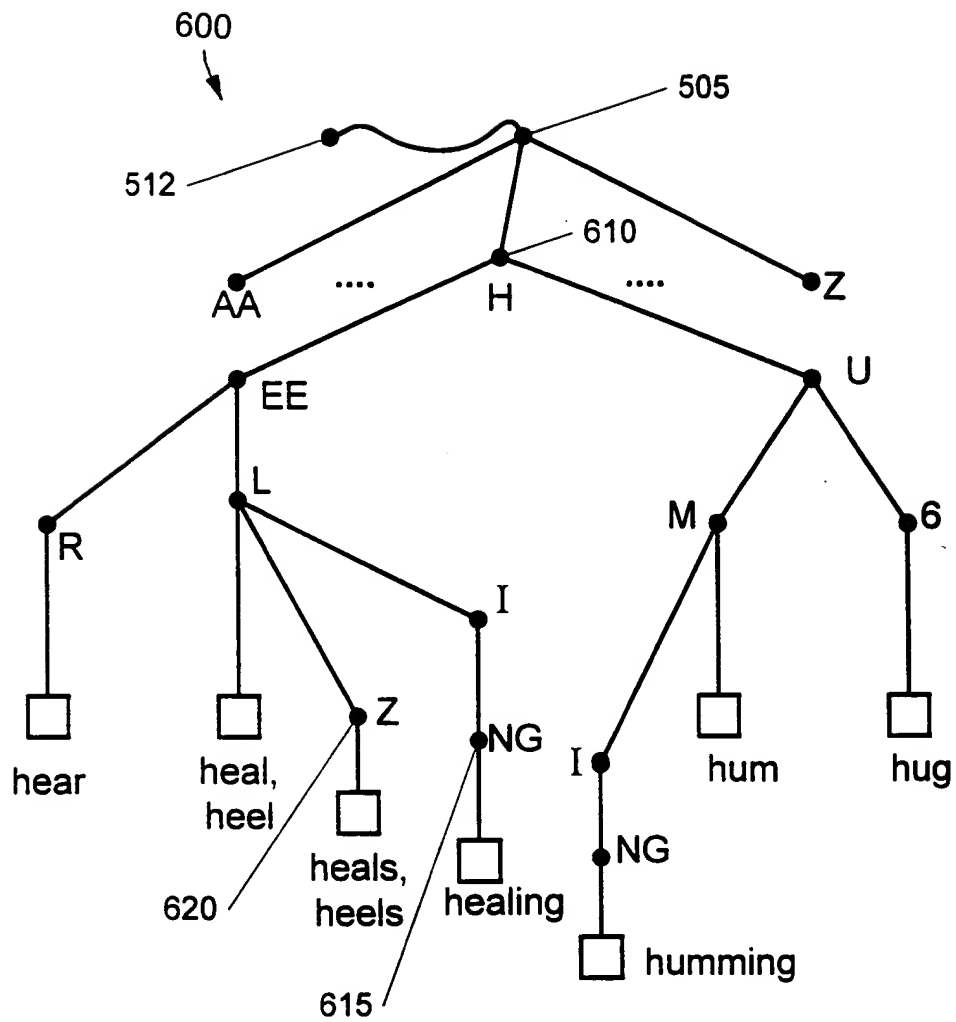


FIG. 6

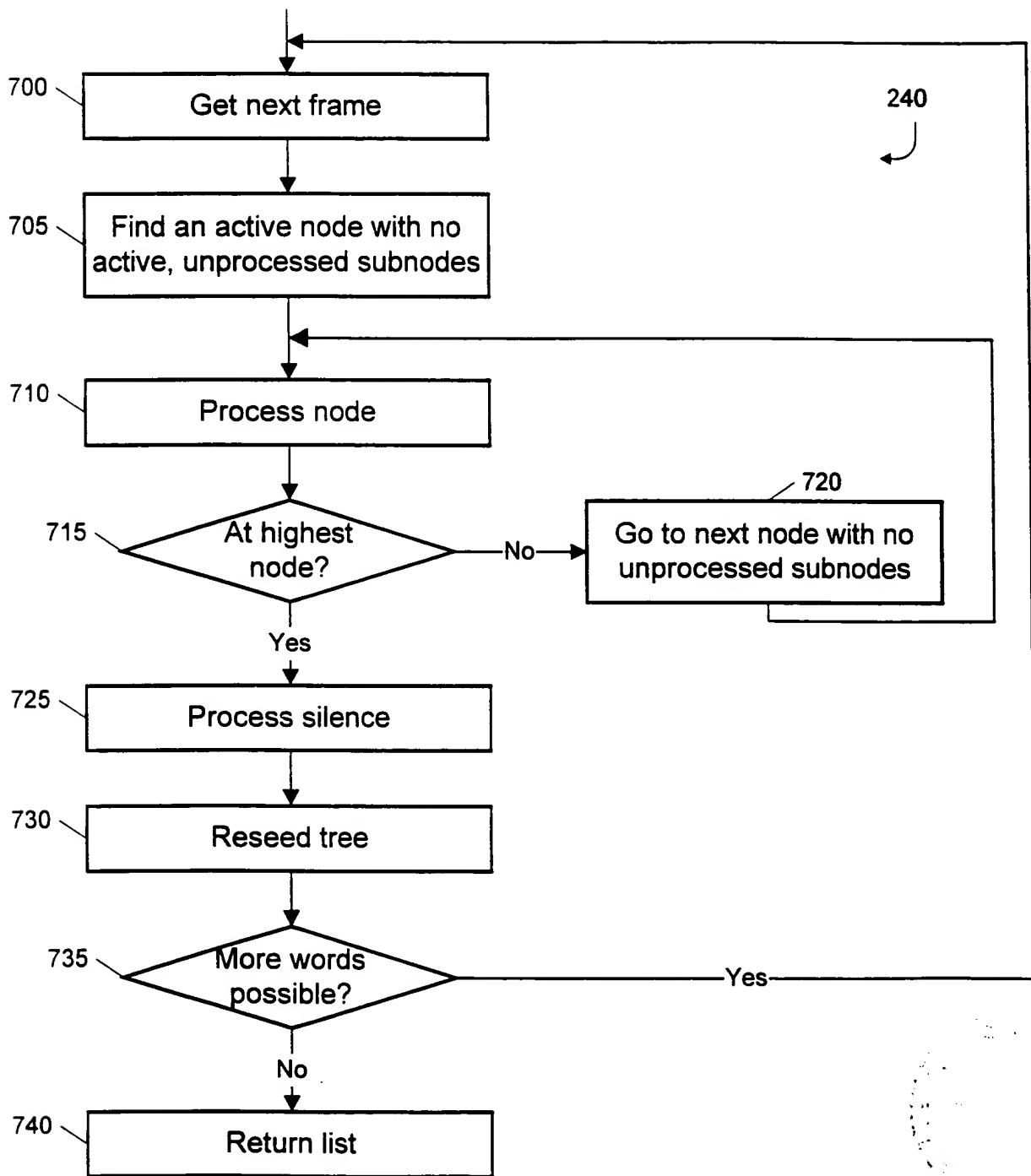


FIG. 7



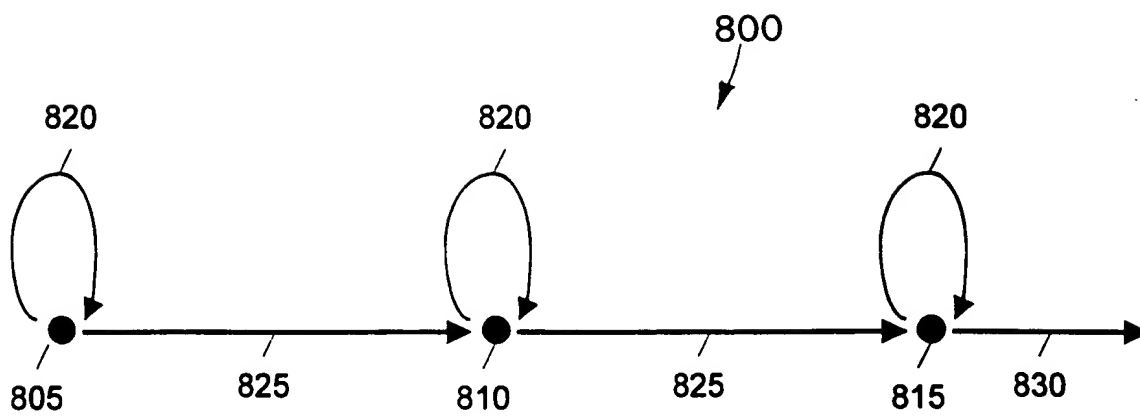


FIG. 8A

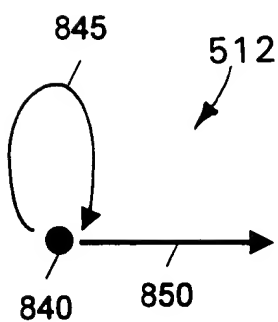


FIG. 8B

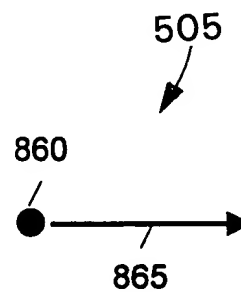


FIG. 8C

Frame	840 ("A")	805 ("B")	810 ("C")	815 ("D")	Next Node ("N")
900 — 0	0	-----	-----	-----	-----
905 — 1	$S_{A1}=A_{A1}$	$S_{B1}=A_{B1}$	-----	-----	-----
910 — 2	$S_{A2}=S_{A1}+A_{A2}$	$S_{B2}=\min(S_{B1}+\text{stay}_B, S_{A1}) + A_{B2}$	$S_{C2}=S_{B1}+\text{leave}_B+A_{C2}$	-----	-----
915 — 3	$S_{A3}=S_{A2}+A_{A3}$	$S_{B3}=\min(S_{B2}+\text{stay}_B, S_{A2}) + A_{B3}$	$S_{C3}=\min(S_{C2}+\text{stay}_C, S_{B2}+\text{leave}_B)+A_{C3}$	$S_{D3}=S_{C2}+\text{leave}_C + A_{D3}$	-----
920 — 4	$S_{A4}=S_{A3}+A_{A4}$	$S_{B4}=\min(S_{B3}+\text{stay}_B, S_{A3}) + A_{B4}$	$S_{C4}=\min(S_{C3}+\text{stay}_C, S_{B3}+\text{leave}_B)+A_{C4}$	$S_{D4}=\min(S_{D3}+\text{stay}_D, S_{C3}+\text{leave}_C)+A_{D4}$	$S_{N4}=S_{D2}+\text{leave}_D + A_{D4}$
925 — n	$S_{An}=S_{An-1}+A_{An}$	$S_{Bn}=\min(S_{Bn-1}+\text{stay}_B, S_{An-1}) + A_{Bn}$	$S_{Cn}=\min(S_{Cn-1}+\text{stay}_C, S_{Bn-1}+\text{leave}_B)+A_{Cn}$	$S_{Dn}=\min(S_{Dn-1}+\text{stay}_D, S_{Cn-1}+\text{leave}_C)+A_{Dn}$	$S_{Nn}=\min(S_{Nn-1}+\text{stay}_M, S_{Mn-1}+\text{leave}_M)+A_{Nm}$

FIG. 9

Frame	810 ("A")	805 ("B")	810 ("C")	815 ("D")	Next Node ("N")
900 — 0	$S_{A0}=0$	-----	-----	-----	-----
905 — 1	$S_{A1}=f(S_{A0}, A_{A1})$	$S_{B1}=f(S_{A0}, A_{B1})$	-----	-----	-----
910 — 2	$S_{A2}=f(S_{A1}, A_{A2})$	$S_{B2}=f(S_{B1}, \text{stay}_B, S_{A1}, A_{B2})$	$S_{C2}=f(S_{B1}, \text{leave}_B, A_{C2})$	-----	-----
915 — 3	$S_{A3}=f(S_{A2}, A_{A3})$	$S_{B3}=f(S_{B2}, \text{stay}_B, S_{A2}, A_{B3})$	$S_{C3}=f(S_{C2}, \text{stay}_C, S_{B2}, \text{leave}_B, A_{C3})$	$S_{D3}=f(S_{C2}, \text{leave}_C, A_{D3})$	-----
920 — 4	$S_{A4}=f(S_{A3}, A_{A4})$	$S_{B4}=f(S_{B3}, \text{stay}_B, S_{A3}, A_{B4})$	$S_{C4}=f(S_{C3}, \text{stay}_C, S_{B3}, \text{leave}_B, A_{C4})$	$S_{D4}=f(S_{D3}, \text{stay}_D, S_{C3}, \text{leave}_C, A_{D4})$	$S_{N4}=f(S_{D3}, \text{leave}_D, A_{D3})$
925 — n	$S_{An}=f(S_{An-1}, A_{An})$	$S_{Bn}=f(S_{Bn-1}, \text{stay}_B, S_{An-1}, A_{Bn})$	$S_{Cn}=f(S_{Cn-1}, \text{stay}_C, S_{Bn-1}, \text{leave}_B, A_{Cn})$	$S_{Dn}=f(S_{Dn-1}, \text{stay}_D, S_{Cn-1}, \text{leave}_C, A_{Dn})$	$S_{Nn}=f(S_{Dn-1}, \text{leave}_N, A_{Nn})$

FIG. 10

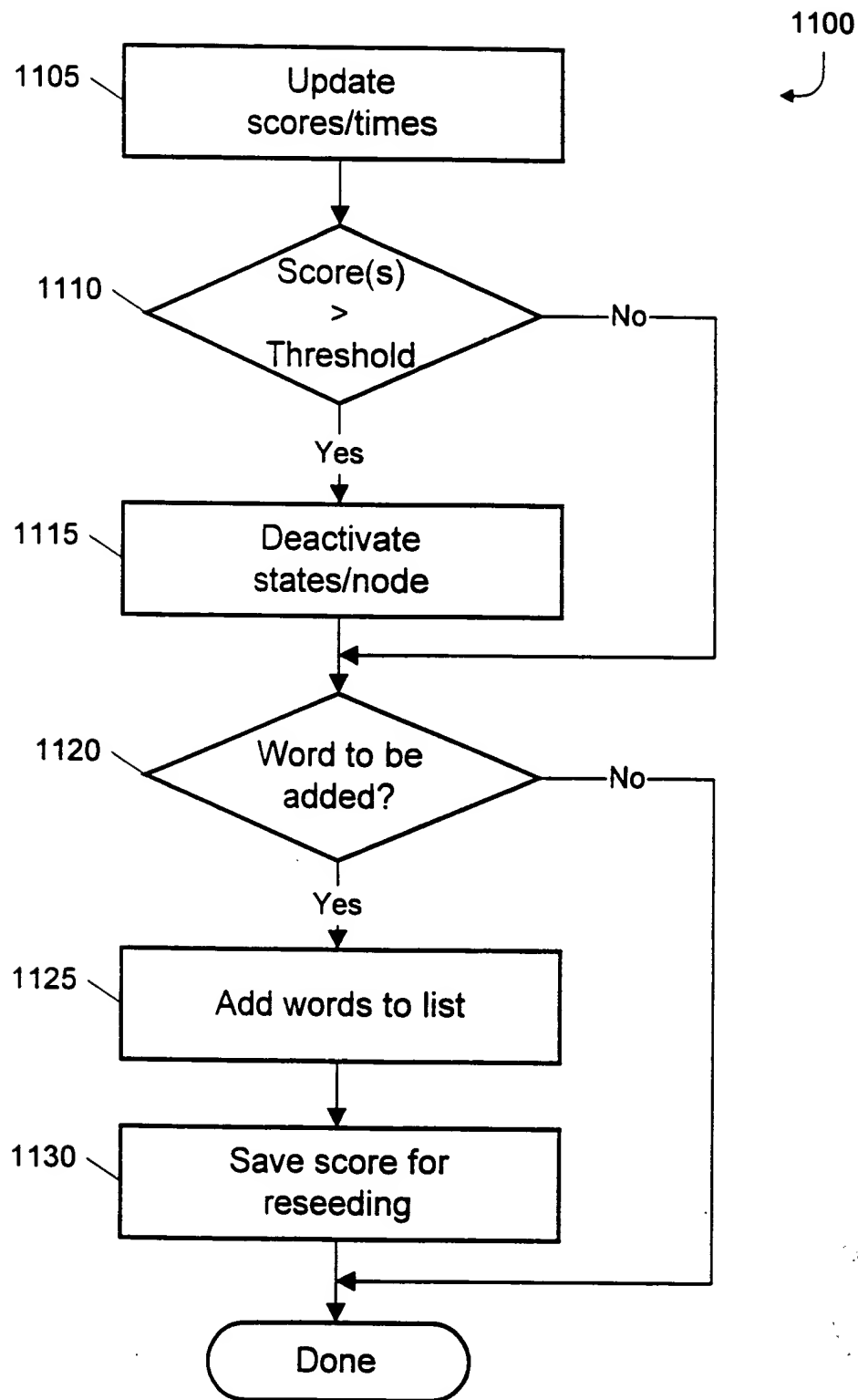
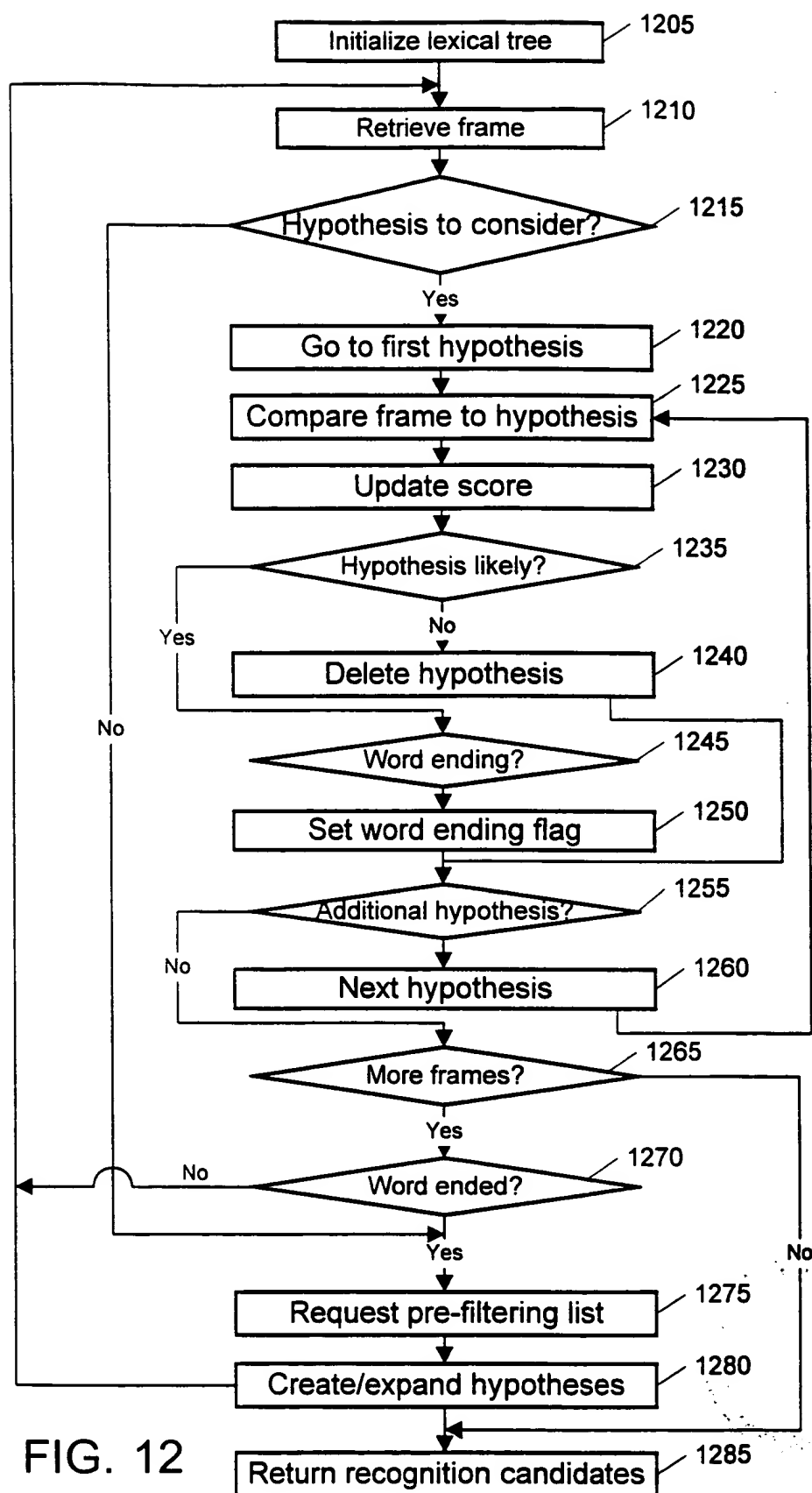


FIG. 11



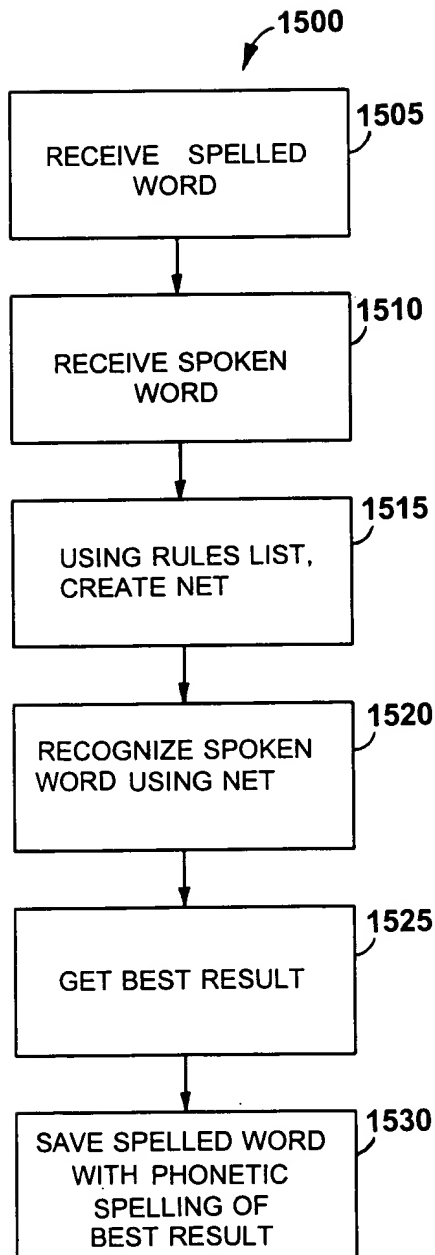


FIG. 15

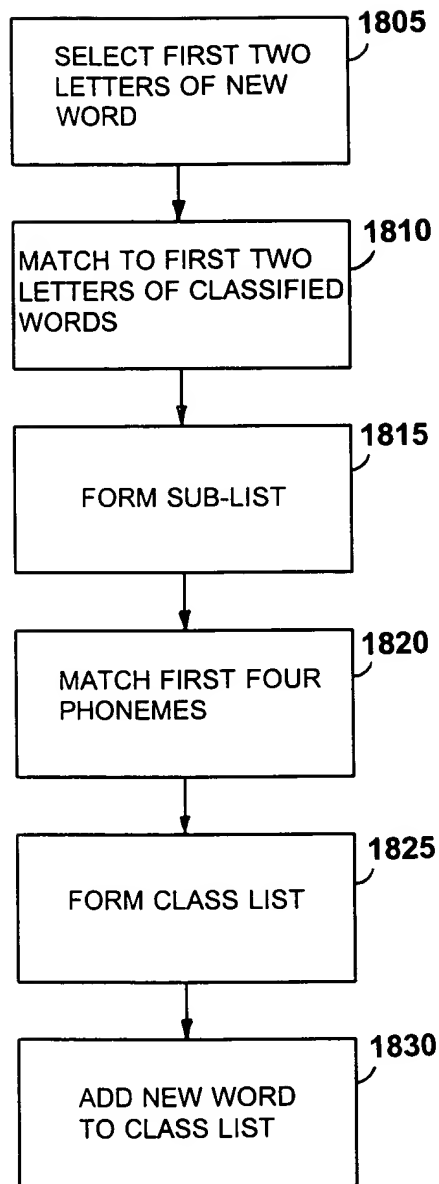


FIG 18

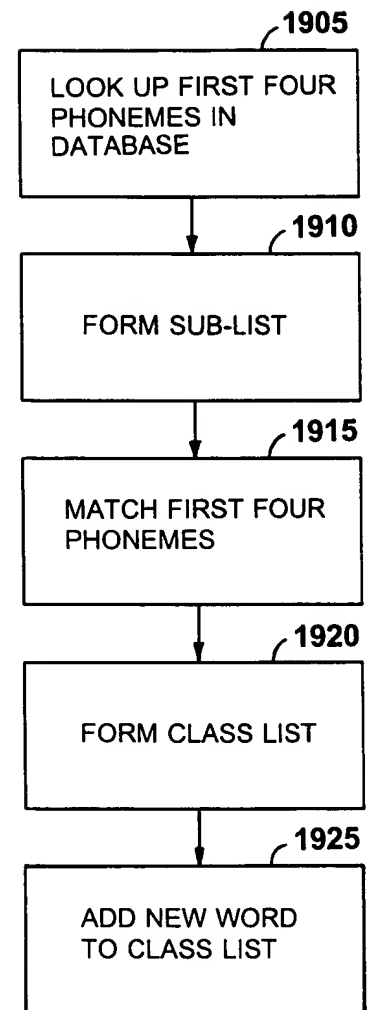


FIG. 19

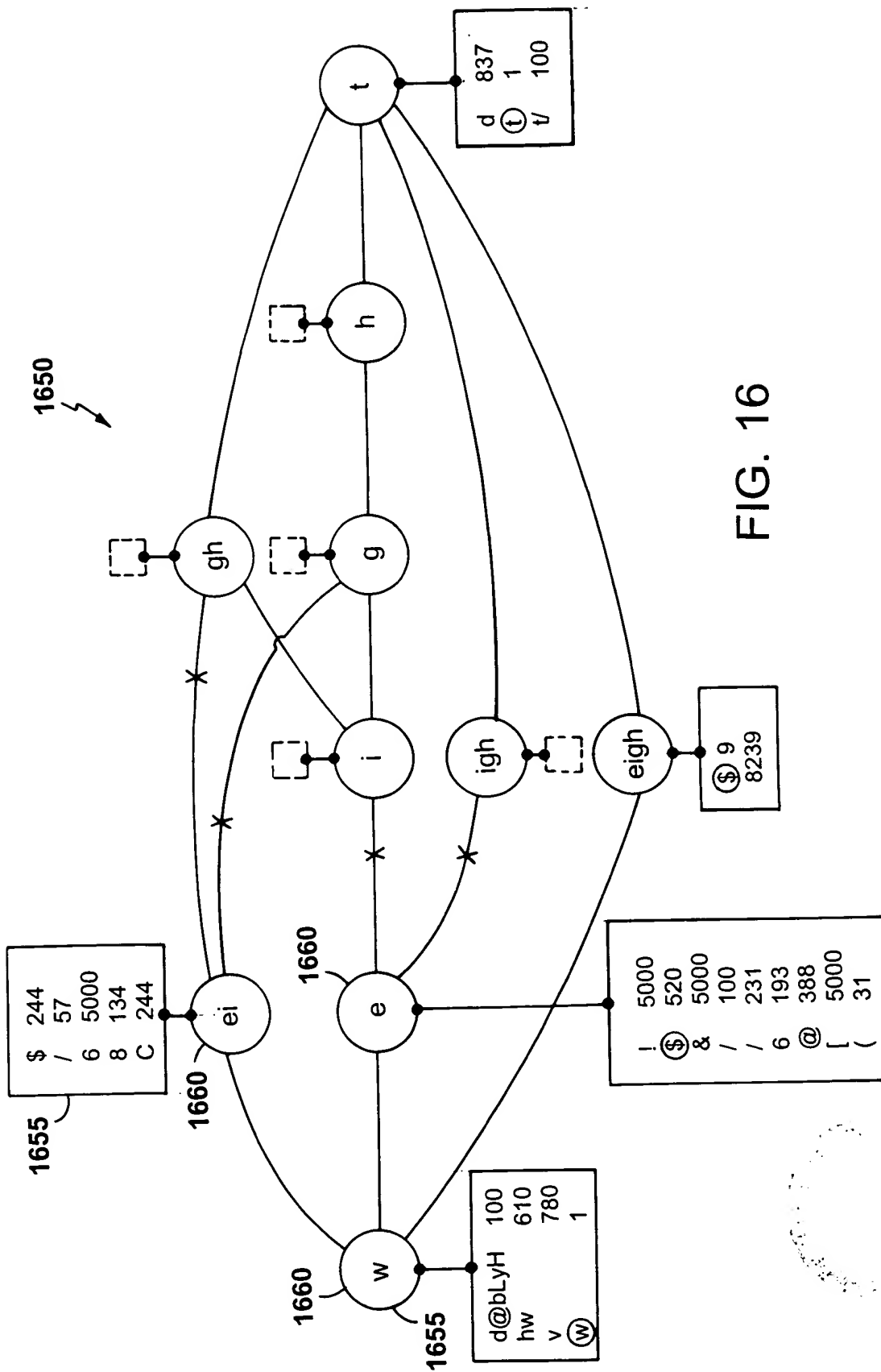


FIG. 16

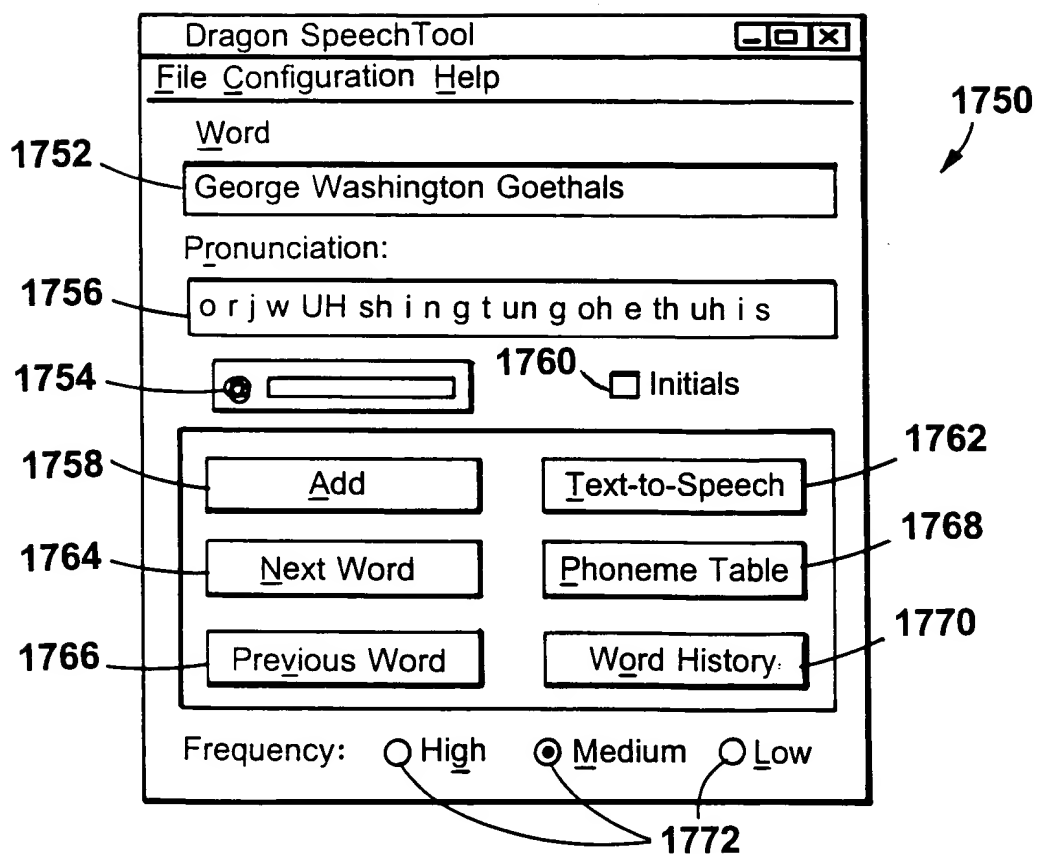


FIG. 17

"	"aw"
!	"a"
\$	"ey"
&	"ah"
)	"AH"
*	"ae"
,	"AE"
/	"ee"
6	"i"
8	"ie"
:	"oy"
<	"OY"
=	"ow"
?	"OW"
@	"uh"
A	"EY"
C	"C"
D	"x"
E	"EI"
F	"ue"
H	"oo"
I	"IE"
L	"ul"
N	"ng"
O	"OH"
P	"ur"
S	"sh"
T	"th"
U	"UE"
V	"UR"
Z	"zh"
[	"o"
]	"oh"
a	"A"
b	"b"
c	"e"
d	"d"
e	"E"
f	"f"
g	"g"

h	"h"
i	"I"
j	"j"
k	"k"
l	"l"
m	"m"
n	"n"
o	"o"
p	"p"
q	"oo"
r	"r"
s	"s"
t	"t"
u	"UH"
v	"v"
w	"w"
y	"y"
z	"z"
(	"AW"
)	"um"
-	"un"

FIG. 20

